

Abstract

An aluminium alloy suitable for diecasting of components with high elongation in the cast state comprises, as well as aluminium and unavoidable impurities, 9.0 to 11.0 w.% silicon, 0.5 to 0.9 w.% manganese, max 0.06 w.% magnesium, 0.15 w.% iron, max 0.03 w.% copper, max 0.10 w.% zinc, max 0.15 w.% titanium, 0.05 to 0.5 w.% molybdenum and 30 to 300 ppm strontium or 5 to 30 ppm sodium and/or 1 to 30 ppm calcium for permanent refinement. Optionally, the alloy also contains 0.05 to 0.3 w.% zirconium and for grain refinement gallium phosphide and/or indium phosphide in a quantity corresponding to 1 to 250 ppm phosphorus and/or titanium and boron added by way of an aluminium master alloy with 1 to 2 w.% Ti and 1 to 2 w.% B.